

2016 Massachusetts HIV/AIDS Epidemiologic Profile

Detailed Data Tables: People Born Outside the US

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Disease and Laboratory Sciences, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2016, this resulted in the removal of 4,913 HIV/AIDS cases, of which 1,099 have died and 3,814 were living. These persons living with HIV infection may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV infection, regardless of location at diagnosis, is the basis for MDPH service planning. Please note that previous HIV/AIDS fact sheets, data reports and presentations included cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual risk category for men; those cases have been reassigned to the no identified risk (NIR) category. The presumed heterosexual risk category was used with the intention of identifying HIV risk for women when sex with men is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. The rationale for the application of the presumed heterosexual risk category to women only has been addressed in the MDPH Office of HIV/AIDS report "Intersecting Risks: HIV Infection among Heterosexual Women and Men in Massachusetts." (2010) http://www.mass.gov/Eeohhs2/docs/dph/aids/intersecting_risks.pdf. The CDC reports men diagnosed with HIV infection who report sex with women as their only risk factor, without corresponding partner risk or HIV status information, in the NIR category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for men in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual risk categories for women.

Table 1. Number and percentage distribution of people diagnosed with HIV infection by place of birth and year of diagnosis: Massachusetts¹, 2005–2014²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	
2005	550	60%	85	9%	278	30%	913
2006	505	61%	62	7%	262	32%	829
2007	473	62%	58	8%	231	30%	762
2008	449	60%	67	9%	230	31%	746
2009	443	62%	57	8%	214	30%	714
2010	440	62%	42	6%	228	32%	710
2011	414	60%	43	6%	235	34%	692
2012	404	56%	61	8%	254	35%	719
2013	410	60%	36	5%	233	34%	679
2014	366	58%	37	6%	226	36%	629

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Ninety-nine percent of people diagnosed with HIV infection from 2005–2014 who were born in a US dependency were born in Puerto Rico, 1% were born in US minor outlying areas <1% were born in the US Virgin Islands, and <1% were born in Guam. Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data are current as of 3/1/16 and may be subject to change

Table 2. Number and percentage distribution of men diagnosed with HIV infection by place of birth and year of diagnosis: Massachusetts¹, 2005–2014²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	
2005	437	66%	60	9%	166	25%	663
2006	392	66%	43	7%	160	27%	595
2007	368	68%	39	7%	137	25%	544
2008	370	68%	43	8%	131	24%	544
2009	369	68%	38	7%	138	25%	545
2010	361	72%	31	6%	110	22%	502
2011	322	65%	34	7%	141	28%	497
2012	328	62%	43	8%	154	29%	525
2013	333	65%	24	5%	153	30%	510
2014	296	62%	26	5%	153	32%	475

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Ninety-nine percent of people diagnosed with HIV infection from 2005–2014 who were born in a US dependency were born in Puerto Rico, 1% were born in US minor outlying areas <1% were born in the US Virgin Islands, and <1% were born in Guam.
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data are current as of 3/1/16 and may be subject to change

Table 3. Number and percentage distribution of women diagnosed with HIV infection by place of birth and year of diagnosis: Massachusetts¹ 2005–2014²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	
2005	113	45%	25	10%	112	45%	250
2006	113	48%	19	8%	102	44%	234
2007	105	48%	19	9%	94	43%	218
2008	79	39%	24	12%	99	49%	202
2009	74	44%	19	11%	76	45%	169
2010	79	38%	11	5%	118	57%	208
2011	92	47%	9	5%	94	48%	195
2012	76	39%	18	9%	100	52%	194
2013	77	46%	12	7%	80	47%	169
2014	70	45%	11	7%	73	47%	154

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Ninety-nine percent of people diagnosed with HIV infection from 2005–2014 who were born in a US dependency were born in Puerto Rico, 1% were born in US minor outlying areas <1% were born in the US Virgin Islands, and <1% were born in Guam. Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data are current as of 3/1/16 and may be subject to change

Table 4. Number and percentage distribution of people living with HIV infection on December 31, 2015 by place of birth: Massachusetts¹

Place of Birth:	HIV/AIDS	
	N	%
US	13,043	64%
Puerto Rico/US dependency ²	1,983	10%
Non-US	5,246	26%
Total	20,272	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Ninety-eight percent of people living with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 2% were born in US minor outlying areas <1% were born in the US Virgin Islands, and <1% were born in Guam.
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 5. Number and percentage distribution of non-US born people diagnosed with HIV infection by race/ethnicity and region of birth: Massachusetts¹, 2012–2014²

Region of Birth:	White NH		Black NH		Hispanic/Latino	
	N	%	N	%	N	%
Caribbean Basin	-- ³	-- ³	134	39%	58	24%
Central & South America	26	37%	-- ³	-- ³	170	71%
Central & South Asia	0	0%	0	0%	-- ³	-- ³
North Africa & Middle East	5	7%	-- ³	-- ³	0	0%
North America & Europe	27	39%	-- ³	-- ³	8	3%
Pacific Rim	-- ³	-- ³	0	0%	0	0%
Southeast Asia	0	0%	0	0%	0	0%
sub-Saharan Africa	0	0%	196	57%	-- ³	-- ³
Unspecified	11	16%	7	2%	0	0%
Total⁴	70	100%	343	100%	239	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation.

⁴ Total includes numbers suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 6. Number and percentage distribution of non-US born people diagnosed with HIV infection by sex at birth and region of birth: Massachusetts¹, 2012–2014²

Region of Birth:	Men		Women		State Total	
	N	%	N	%	N	%
Caribbean Basin	102	22%	91	36%	193	27%
Central & South America	174	38%	27	11%	201	28%
Central & South Asia	-- ³	-- ³	-- ³	-- ³	26	4%
North Africa & Middle East	6	1%	0	0%	6	1%
North America & Europe	-- ³	-- ³	-- ³	-- ³	36	5%
Pacific Rim	5	1%	0	0%	5	1%
Southeast Asia	20	4%	8	3%	28	4%
sub-Saharan Africa	82	18%	117	46%	199	28%
Unspecified	13	3%	6	2%	19	3%
Total⁴	460	100%	253	100%	713	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation.

⁴ Total includes numbers suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 7. Number and percentage distribution of non-US born people living with HIV infection on December 31, 2015 by sex at birth and region of birth: Massachusetts¹

Region of Birth:	Men		Women		State Total	
	N	%	N	%	N	%
Caribbean Basin	884	29%	760	35%	1,644	31%
Central & South America	977	32%	241	11%	1,218	23%
Central & South Asia	92	3%	11	1%	103	2%
North Africa & Middle East	-- ²	-- ²	-- ²	-- ²	33	1%
North America & Europe	255	8%	49	2%	304	6%
Pacific Rim	-- ²	-- ²	-- ²	-- ²	20	<1%
Southeast Asia	143	5%	53	2%	196	4%
sub-Saharan Africa	634	20%	988	46%	1,622	31%
Unspecified	64	2%	42	2%	106	2%
Total³	3,094	100%	2,152	100%	5,246	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation.

³ Total includes numbers suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 8. Number and percentage of non-US born people diagnosed with HIV infection by leading countries of birth: Massachusetts¹, 2012–2014²

Rank	Country of Birth	Number of HIV Dx ³ among Non-US	% of Total HIV Diagnoses among Non-US
1	Haiti	107	15.0%
2	Brazil	70	9.8%
3	Dominican Republic	53	7.4%
4	Uganda	38	5.3%
5	Cape Verde	36	5.0%
6	Columbia	29	4.1%
7	Guatemala	26	3.6%
8	Honduras	25	3.5%
9	Jamaica	24	3.4%
10	Nigeria	22	3.1%
11	El Salvador	21	2.9%
12	Kenya	19	2.7%
	All Others	243	34.1%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ HIV Dx = HIV diagnoses

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 9. Number and percentage distribution of people diagnosed with HIV infection, place of birth by sex at birth, race/ethnicity and exposure mode: Massachusetts,¹ 2012–2014²						
	US Born		Puerto Rico/ US dependency³		Non-US Born	
By Sex at birth:	N	%	N	%	N	%
Men	957	81%	93	69%	460	65%
Women	223	19%	41	31%	253	35%
By Race/Ethnicity:						
White (non-Hispanic)	673	57%	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Black (non-Hispanic)	270	23%	-- ⁷	-- ⁷	343	48%
Hispanic	209	18%	132	99%	239	34%
Asian/Pacific Islander	12	1%	0	0%	60	8%
Other/Unknown	16	1%	-- ⁷	-- ⁷	-- ⁷	-- ⁷
By Exposure mode:						
Male-to-male sex (MSM)	645	55%	41	31%	234	33%
Injection drug use (IDU)	75	6%	26	19%	-- ⁷	-- ⁷
MSM/IDU	41	3%	-- ⁷	-- ⁷	6	1%
Total heterosexual sex (HTSX)	62	5%	25	19%	64	9%
• HTSX w/ an injection drug user	19	2%	10	7%	-- ⁷	-- ⁷
• HTSX w/ bisexual men (women only)	-- ⁷	-- ⁷	-- ⁷	-- ⁷	-- ⁷	-- ⁷
• Other HTSX ⁴	-- ⁷	-- ⁷	-- ⁷	-- ⁷	0	0%
• HTSX w/ a person w/ HIV or AIDS	42	4%	14	10%	61	9%
Blood/blood products	0	0%	0	0%	0	0%
Pediatric	6	1%	0	0%	5	1%
Total undetermined	351	30%	38	28%	400	56%
• Presumed HTSX ⁵	89	8%	14	10%	173	24%
• Undetermined ⁶	262	22%	24	18%	227	32%
Total⁸	1,180	100%	134	100%	713	100%
¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts. ² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999. ³ All people diagnosed with HIV infection from 2012–2014 who were born in a US dependency were born in Puerto Rico. ⁴ Includes heterosexual sex with a person who received blood/blood products. ⁵ Includes woman having sex with a man of unknown HIV status or risk. This category is limited to women. ⁶ Includes man having sex with a woman of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up. ⁷ Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation. ⁸ Total includes numbers suppressed for the assurance of confidentiality. Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change						

Table 10. Number and percentage distribution of people living with HIV infection on December 31, 2015, place of birth by sex at birth, race/ethnicity, and exposure mode: Massachusetts¹

	US born		Puerto Rico/ US dependency ²		Non-US born	
By Sex at birth:	N	%	N	%	N	%
Men	10,038	77%	1,307	66%	3,094	59%
Women	3,005	23%	676	34%	2,152	41%
By Race/Ethnicity:	N	%	N	%	N	%
White (non-Hispanic)	8,020	61%	12	1%	577	11%
Black (non-Hispanic)	3,173	24%	15	1%	2,895	55%
Hispanic	1,640	13%	1,956	99%	1,433	27%
Asian/Pacific Islander	88	1%	0	0%	311	6%
Other/Unknown	122	1%	0	0%	30	1%
By Exposure mode:						
Male-to-male sex (MSM)	6,204	48%	244	12%	1,235	24%
Injection drug use (IDU)	2,488	19%	904	46%	168	3%
MSM/IDU	585	4%	72	4%	44	1%
Total heterosexual sex (HTSX)	1,309	10%	418	21%	1,092	21%
• HTSX w/ an injection drug user	571	4%	212	11%	108	2%
• HTSX w/ bisexual men (women only)	34	0%	-- ⁶	-- ⁶	9	<1%
• HTSX w/ a person w/ HIV or AIDS	30	0%	-- ⁶	-- ⁶	15	<1%
• Other HTSX ³	674	5%	201	10%	960	18%
Blood/blood products	53	<1%	-- ⁶	-- ⁶	10	<1%
Pediatric	280	2%	-- ⁶	-- ⁶	48	1%
Total undetermined	2,124	16%	324	16%	2,649	50%
• Presumed HTSX ⁴	627	5%	129	7%	1,138	22%
• Undetermined ⁵	1,497	11%	195	10%	1,511	29%
Total⁷	13,043	100%	1,983	100%	5,246	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Ninety-eight percent of people living with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 2% were born in US minor outlying areas <1% were born in the US Virgin Islands, and <1% were born in Guam.

³ Includes heterosexual sex with a person who received blood/blood products.

⁴ Includes woman having sex with a man of unknown HIV status or risk. This category is limited to women.

⁵ Includes man having sex with a woman of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation.

⁷ Total includes numbers suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 11. Number and percentage distribution of non-US born people diagnosed with HIV infection, sex at birth by exposure mode and race/ethnicity: Massachusetts,¹ 2012–2014²

	Men		Women	
Exposure mode:	N	%	N	%
Male-to-male sex (MSM)	234	51%	N/A ³	N/A
Injection drug use (IDU)	-- ⁷	-- ⁷	-- ⁷	-- ⁷
MSM/IDU	6	1%	N/A	N/A
Heterosexual sex (HTSX)	23	5%	41	16%
Blood/Blood products	0	0%	0	0%
Pediatric	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Total Undetermined	192	42%	208	82%
• Presumed HTSX ⁴	N/A	N/A	173	68%
• Undetermined ⁵	192	42%	35	14%
Race/Ethnicity	N	%	N	%
White (non-Hispanic)	62	13%	8	3%
Black (non-Hispanic)	158	34%	185	73%
Hispanic	191	42%	48	19%
Asian/Pacific Islander	49	11%	11	4%
Total⁶	460	100%	253	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ N/A = Not Applicable

⁴ Includes woman having sex with a man of unknown HIV status or risk. This category is limited to women.

⁵ Includes man having sex with a woman of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Total includes individuals of other and undetermined race/ethnicity and numbers suppressed for confidentiality

⁷ Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 12. Number and percentage distribution of non-US born people living with HIV infection on December 31, 2015, sex at birth by exposure mode and race/ethnicity: Massachusetts¹

	Men		Women	
Exposure mode:	N	%	N	%
Male-to-male sex (MSM)	1,235	40%	N/A ²	N/A
Injection drug use (IDU)	115	4%	53	2%
MSM/IDU	44	1%	N/A	N/A
Heterosexual sex (HTSX)	354	11%	738	34%
Other	30	1%	28	1%
Total Undetermined	1,316	43%	1,333	62%
• Presumed HTSX ³	N/A	N/A	1,138	53%
• Undetermined ⁴	1,316	43%	195	9%
Race/Ethnicity	N	%	N	%
White (non-Hispanic)	485	16%	92	4%
Black (non-Hispanic)	1,286	42%	1,609	75%
Hispanic	1,069	35%	364	17%
Asian/Pacific Islander	241	8%	70	3%
Other/Unknown	13	<1%	17	1%
Total	3,094	100%	2,152	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² N/A = Not Applicable

³ Includes woman having sex with a man of unknown HIV status or risk. This category is limited to women.

⁴ Includes man having sex with a woman of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 13. Number and percentage distribution of men diagnosed with HIV infection, place of birth by and exposure mode: Massachusetts,¹ 2012–2014²

By Exposure mode:	US Born		Puerto Rico/ US dependency ³		Non-US Born	
	N	%	N	%	N	%
Male-to-male sex (MSM)	645	67%	41	44%	234	51%
Injection drug use (IDU)	41	4%	19	20%	-- ⁵	-- ⁵
MSM/IDU	41	4%	-- ⁵	4%	6	1%
Heterosexual sex (HTSX)	23	2%	10	11%	23	5%
Other	5	1%	-- ⁵	-- ⁵	-- ⁵	-- ⁵
Undetermined ⁴	202	21%	19	20%	192	42%
Total⁶	957	100%	93	100%	460	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ All people diagnosed with HIV infection from 2012–2014 who were born in a US dependency were born in Puerto Rico.

⁴ Includes man having sex with a woman of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation.

⁶ Total includes numbers suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 14. Number and percentage distribution of women diagnosed with HIV infection, place of birth by and exposure mode: Massachusetts,¹ 2012–2014²

	US Born		Puerto Rico/ US dependency ³		Non-US Born	
By Exposure mode:	N	%	N	%	N	%
Injection Drug Use (IDU)	-- ⁶	-- ⁶	7	17%	-- ⁶	-- ⁶
Heterosexual Sex (HTSX)	39	17%	15	37%	41	16%
Other	-- ⁶	-- ⁶	0	0%	-- ⁶	-- ⁶
Total Undetermined	149	67%	19	46%	208	82%
• Presumed HTSX ⁴	89	40%	14	34%	173	68%
• Undetermined ⁵	60	27%	5	12%	35	14%
Total⁷	223	100%	41	100%	253	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ All people diagnosed with HIV infection from 2012–2014 who were born in a US dependency were born in Puerto Rico.

⁴ Includes woman having sex with a man of unknown HIV status or risk. This category is limited to women.

⁵ Includes man having sex with a woman of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation.

⁷ Total includes numbers suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 15. Number and percentage distribution of people diagnosed with HIV infection by Health Service Region (HSR)¹ of residence at diagnosis and place of birth: Massachusetts², 2012–2014³

	US		Puerto Rico/ US dependency ⁴		Non-US		Total
HSR	N	%	N	%	N	%	N
Boston HSR	338	56%	27	4%	241	40%	606
Central HSR	82	56%	12	8%	52	36%	146
Metro West HSR	-- ⁶	-- ⁶	-- ⁶	-- ⁶	140	45%	310
Northeast HSR	215	55%	30	8%	147	38%	392
Southeast HSR	190	62%	19	6%	98	32%	307
Western HSR	173	72%	42	17%	26	11%	241
Prison ⁵	7	64%	-- ⁶	-- ⁶	-- ⁶	-- ⁶	11
MA Total⁷	1,180	58%	134	7%	713	35%	2,027

¹ Reflects the health service region of a person's residence at the time of report (not necessarily current residence); see Epidemiologic Profile General Appendices, Health Service Region Maps, available at http://www.mass.gov/dph/aids/research/profile2006/app5_hrs_maps.pdf for configuration of health service regions.

² Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

⁴ All people diagnosed with HIV infection from 2012–2014 who were born in a US dependency were born in Puerto Rico.

⁵ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prison includes only persons who were diagnosed with HIV/AIDS while in a correctional facility

⁶ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prison includes only persons who were diagnosed with HIV/AIDS while in a correctional facility

⁷ Values less than five are suppressed for populations less than 50,000 or for unknown values. Additional values may be suppressed to prevent back calculation.

⁷ Total includes numbers suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 16. Number and percentage distribution of people living with HIV infection on December 31, 2015 by Health Service Region (HSR)¹ of residence at diagnosis and place of birth: Massachusetts²

	US		Puerto Rico/ US dependency ³		Non-US		Total
HSR	N	%	N	%	N	%	N
Boston HSR	4,181	66%	375	6%	1,823	29%	6,379
Central HSR	1,017	60%	285	17%	406	24%	1,708
Metro West HSR	1,790	60%	78	3%	1,131	38%	2,999
Northeast HSR	1,829	56%	374	11%	1,075	33%	3,278
Southeast HSR	2,055	73%	163	6%	585	21%	2,803
Western HSR	1,522	69%	515	24%	154	7%	2,191
Prison ⁴	627	71%	190	22%	62	7%	879
MA Total	13,043	64%	1,983	10%	5,246	26%	20,272

¹ Reflects the health service region of a person's residence at the time of report (not necessarily current residence); see Epidemiologic Profile General Appendices, Health Service Region Maps, available at http://www.mass.gov/dph/aids/research/profile2006/app5_hrs_maps.pdf for configuration of health service regions

² Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-eight percent of people living with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 2% were born in US minor outlying areas <1% were born in the US Virgin Islands, and <1% were born in Guam.

⁴ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prison includes only persons who were diagnosed with HIV infection while in a correctional facility

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 17. Rank of the ten cities/towns¹ in Massachusetts² by the highest proportion of HIV infection diagnoses among people born outside the US: 2012–2014³

Rank	City/Town	Number of HIV Dx among Non-US Born	Total Number of HIV Dx	Percent of Total HIV Dx
1	Malden	23	31	74.2%
2	Brockton	53	80	66.3%
3	Chelsea	23	36	63.9%
4	Waltham	20	33	60.6%
5	Revere	16	27	59.3%
6	Everett	16	29	55.2%
7	Cambridge	18	37	48.6%
8	Somerville	18	38	47.4%
9	Quincy	14	31	45.2%
10	Lynn	22	51	43.1%
	All others ⁴	490	1,634	30.0%
	Massachusetts	713	2,027	35.2%

¹ Among cities/towns with at least 20 reported HIV Infection diagnoses in the years 2011–2013. Note: reflects the city/town of a person's residence at the time of report (not necessarily current residence). People diagnosed while at a correctional facility are not included.

² Effective January 1, 2011, the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

⁴ All others include diagnoses made in a correctional facility

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change

Table 18. World region of birth by countries of birth with at least 10 people living with HIV infection on December 31, 2015: Massachusetts¹

World Region of Birth	Countries of Birth with ≥ 10 People Living with HIV infection in Massachusetts
Caribbean Basin	Barbados, Cuba, Dominican Republic, Haiti, Jamaica, Trinidad & Tobago
Central & South America	Argentina, Brazil, Chile, Columbia, Costa Rica, El Salvador, Guatemala, Guyana, Honduras, Mexico, Peru, Venezuela
Central & South Asia	China, India
North Africa & Middle East	Lebanon
North America & Europe	Canada, France, Germany, Greece, Ireland, Italy, Portugal, Russia, Spain, United Kingdom
Pacific Rim	Philippines
Southeast Asia	Cambodia, Myanmar, Vietnam, Thailand
sub-Saharan Africa	Angola, Cameroon, Cape Verde, Congo, Cote d'Ivoire, Ethiopia, Ghana, Guinea, Kenya, Liberia, Malawi, Nigeria, Rwanda, Sierra Leone, Somalia, South Africa, Tanzania, Uganda, Zambia, Zimbabwe

¹ Effective January 1, 2011, the Massachusetts Department of Public Health, Office of HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases for all years presented that were first diagnosed in another state before being diagnosed and reported in Massachusetts.
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data are current as of 3/1/16 and may be subject to change